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1874/75

ANNUAL ANNOUNCEMENT OF LECTURES

AT

TOLAND HALL,

Medical Department

OF THE

UNIVERSITY OF CALIFORNIA,

SAN FRANCISCO,

CALIFORNIA.

SESSION OF 1875.

SAN FRANCISCO:
CUBERY AND COMPANY, BOOK, PLAIN AND ORNAMENTAL JOB PRINTERS,
414 Market Street, below Sansome.
1875.

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UNIVERSITY OF CALIFORNIA.

BOARD OF REGENTS.

REGENTS.

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DANIEL C. GILMAN, Oakland, President of the University.

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J. MORA MOSS, Esq., Oakland.
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WILLIAM MEEK, Esq., San Lorenzo.
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WM. C. RALSTON, Esq., San Francisco, Treasurer.
Hon. JOHN B. FELTON, Oakland.
LOUIS SACHS, Esq., San Francisco.
Hon. HENRY H. HAIGHT, Alameda.

The President of the University is present at the Meetings of the Board and is a member of the Standing Committee.

Secretary:

ROBERT E. C. STEARNS, Berkeley.

Advisory Committee:

Messrs. Haight, Martin and Stebbins.

ACTIVE MEMBERS OF THE FACULTY.

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PRESIDENT.

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DEMONSTRATOR OF ANATOMY.

A. A. O'NEIL, M. D.,
DEAN OF THE FACULTY.
Office, 650 Washington Street.

ANNOUNCEMENT.

The twelfth regular annual course of Lectures in this institution will commence on the first Monday in June, and terminate on the thirty-first day of October, 1875.

The Faculty of the Medical Department of the University of California, (formerly Toland Medical College,) in announcing their course of medical instruction, for the ensuing year, feel warranted in claiming for San Francisco a superiority in climate over any of the Eastern cities; which renders the otherwise arduous labors of the student comparatively easy and agreeable on the one hand, and facilitates the study of practical Anatomy, irrespective of season, on the other.

Indeed, the opportunities for prosecuting the study of practical Anatomy, in this city, are superior to those of any known region of the globe. Independent of the advantages in climate, material for dissection, (the supply of which is regulated by law,) is abundant and cheap, and our salubrious breezes not only preserve the *cadaver* for an indefinite length of time, but secure the health of the student from injury in consequence of the effluvium, so constant an attendant upon dissections elsewhere.

Students, therefore, of all tropical countries, and of the Southern States of our Union, as well as of the North, who are unable, from these causes, to prosecute their studies at home, will find it greatly to their advantage to repair to San Francisco.

The Faculty take pleasure in announcing the superior class of last session, numerically the largest ever assembled west of the Rockies—this extremely gratifying evidence of success has

encouraged the Faculty to renewed exertions, and to provide improved facilities for teaching medicine in all its branches.

CLINICAL INSTRUCTION.

In connection with the Lectures there have been established a Medical and Surgical Clinic, a Clinic of Diseases of the Eye and Ear, a Clinic of Diseases of Women, and an Obstetrical Clinic at the City and County Hospital, where, throughout the course, diseases in all their varieties and stages may be studied at the bed-side.

A patient is placed in charge of a senior student, and by him examined, a diagnosis and prognosis given, together with his views of treatment, in the presence of the class; after which, all errors of investigation, conclusion, or suggestion in treatment are corrected, with such remarks upon the subject as may be pertinent to practical medicine, etc.

Every student, thus detailed, is expected to keep a complete history of the case, in due form, for his own and lecturer's use.

Thus it will be seen that the extraordinary opportunities furnished are scarcely to be equalled by any school in the Union, and certainly are excelled by none.

Clinical Lectures will be given on Monday, Wednesday, and Friday of each week, on Practice of Medicine, Surgery, Special Pathological Anatomy, Physical Diagnosis, Auscultation and Percussion, Diseases of Women, and Diseases of the Eye and Ear, at the College.

The Surgical Clinic, will be under the direction of Professor Toland.

The Medical Clinic, under Professor Bates.

The Obstetrical Clinic, and the Clinic of Diseases of Women, under Professor Cole.

The Clinic of Diseases of the Eye and Ear, under Professor Martinache.

The Faculty invite attention to the fact that the Board of Regents have established a Chair of Mental Diseases and Medical Jurisprudence.

The increasing ratio of insanity to population is attracting the attention of the entire medical profession. The leading schools of the world are establishing special courses of instruction in this department; hence, the Faculty, in view of the frequency with which these diseases are met, and the many casualties, injuries and deaths from violence and cases of poisoning occurring in this State, involving medico-legal investigation, feel especial pride in being able to announce the addition of this Chair to their curriculum.

The same authorities have established a Chair of Hygiene, which will be illustrated by the professor with new apparatus recently obtained by him for this Chair.

THE MUSEUM

Of the College has recently received large accessions to its collection of wet and dried preparations, in the various departments, together with extensive additions in wax and papier mache, fitted for illustrating the Lectures. Professor Cole, now in Europe, has secured for the other chairs, as well as for his own, every improvement necessary or useful for explanation.

SPECIAL BRANCHES OF STUDY.

The following branches are annually taught: Principles and Practice of Medicine, Anatomy, Physiology, Surgery, Chemistry, Materia Medica, Clinical Surgery, Clinical Medicine, Pathology, Midwifery, Diseases of Women and Children, Medical Jurisprudence, Clinical Diseases of Women, Clinical Midwifery, Ophthalmology, Otology and Hygiene.

Principles and Practices of Medicine—It will be the aim of the Lecturer in this department to impart to the student the most important, practical knowledge, to present in his lectures a summary of those facts and principles, which are embraced in the practice of medicine at the present time, and which furnish the only safe guide to the medical man.

He will endeavor to give a faithful description of diseases, their etiology, symptoms, diagnosis, prognosis, lesions and treatment.

He will convey to the student a knowledge of the pathological changes which occur in different diseases, by means of plates, various preparations, and by recent specimens of diseased parts. A medical clinic will also be given at the City and County Hospital, where the student will have an opportunity of testing by the evidence of his senses, those facts and principles, which have been taught in the lecture room. Every effort will be made to impart practical instruction in the diagnosis and treatment of diseases.

Especial attention will be given to the diagnosis of diseases of the chest, by auscultation and percussion.

Chemistry—No effort will be wanting to make the course upon this important branch of science as thoroughly practical and instructive to the class, as in similar institutions in the Atlantic States.

All important principles in chemistry will be illustrated by means of suitable philosophical, chemical and other apparatus, for that purpose, and facts and theories will be presented in a clear and comprehensive manner.

Toxicology will receive that careful attention which its medico-legal importance demands.

Physiology—The lectures in this department will embrace a consideration of both general and special physiology, including all that has been developed through the microscope, up to the present time, and will be illustrated by the largest and most complete series of colored drawings in the United States, prepared expressly for these lectures.

These drawings have been furnished, and are designed to convey to the mind of the student, ideas which it is impossible to communicate by language alone.

When expedient the microscope, an instrument to which the science of physiology is much indebted, will be used for illustrating important facts and principles, and the student will not only receive instruction in theory, but in the means of arriving at facts in this important science.

Anatomy--The lectures on Anatomy will be fully illustrated by preparations (wet and dried) and by the *cadaver*.

The Dissecting Room has been entirely refitted and furnished with every possible convenience, so as to facilitate the prosecution of the Study of Practical Anatomy, and will be constantly supplied with an abundance of material.

Surgery—Instruction in this department will embrace : 1st. A regular course of lectures on the principles and practice of surgery ; 2d. Demonstrative surgery upon the *cadaver* ; and 3d. A thorough clinical course, including diseases of the genito-urinary apparatus, at the County Hospital and College Building.

Obstetrics—In this course there will be no lack of effort to bring every thing pertaining to this department, as clearly and practically before the mind of the student, as the present state of the science will admit.

The lectures will be amply illustrated by colored drawings, many of which have been taken from nature, and also by wet preparations. The different operations in obstetrics will be performed upon a manakin, and the student will be instructed and practiced in the use of obstetrical instruments, besides enjoying the opportunity of visiting the Lying-in-Hospital and applying to practice principles which have been taught in the lecture-room.

Materia Medica and Pharmacy—It will be the aim of the Professor of Materia Medica to bring before the class all that is of importance, and bears the impress of truth, connected with this department, in such a manner as to be readily comprehended by the student.

The lectures will be illustrated by colored drawings by the exhibition of the various medicinal substances in the use at the time describing them, and by demonstrating their reactions and combinations.

Recent plants will be presented and described, when expedient, particularly those which are indigenous to our soil, of which there are many varieties scattered over this vast region, possessing great therapeutic value, a knowledge of which is indispensable to the practitioner of medicine in this country.

Diseases of Women—This department, which has made within the past few years such rapid strides towards thorough development, and which has recently received so much attention at the hands of the Profession, will be fully taught, both didactically and clinically. The facilities furnished in this institution for carrying out practically the study of diseases peculiar to women, are rarely enjoyed, and are not excelled by any other school in the country.

Medical Jurisprudence and Mental Diseases—The lectures in this department will exhibit the principles of legal medicine and the duties of medical men as experts in giving testimony in courts of justice, and in the examination of medico-legal questions; will embrace a view of insanity, suicide, infanticide, legitimacy, poisoning, death and injury from violence, feigned sickness, duties of coroners, and other topics of practical importance, whether to the student of medicine or of law; together with a thorough course on the various diseases of the mind, so common in this State.

Ophthalmology and Otology—The great and growing importance of Diseases of the Eye and Ear, and the extensive discoveries and improvements recently made in those departments, have led to the establishment of a Professorship of Ophthalmology and Otology. The students will have frequent opportunities of witnessing operations of different kinds, particularly on the Eye, and will be instructed in the use of the Ophthalmoscope and other instruments, in the diagnosis and treatment of the diseases of these organs. For this purpose a proper room has been specially furnished and fitted, and the student will be taught their use practically.

REQUIREMENTS AND REGULATIONS.

The examinations will be so arranged as to permit the commencement for conferring degrees to be held early in November.

The candidate must be of good moral character, and at least twenty-one years of age.

He must have attended two full courses of lectures in some regular and recognized medical school, one of which shall have

been in this College, and he must exhibit his tickets, or other sufficient evidences thereof, to the Dean of the Faculty.

He must have studied medicine for not less than three years, and have attended at least one course of practical anatomy in the dissecting room, and one course of clinical instruction in an institution approved by the Faculty.

He must present to the Dean of the Faculty a thesis or dissertation upon some medical subject, in his own hand-writing and of his own composition ; and exhibit to the Faculty, at his examination, satisfactory evidence of his professional attainments.

FEES.

The aggregate fees for tickets to all the lectures during the regular term, including instruction at the various hospitals, will be $130. Tickets for one or any number of the departments of instruction may be had separately.

The matriculation fee is $5, to be paid but once.

The graduation fee is $40.

The dissecting fee is $10.

BENEFICIARIES.

For the purpose of assisting meritorious young men, the Faculty will receive annually a limited number of beneficiaries, who will be required to pay *fifty dollars* each, towards the support of the institution, together with the matriculation fee.

Those who are desirous of availing themselves of this foundation, must present to the Dean of the Faculty, as early as possible, satisfactory evidence, showing them to be of good moral character and of appropriate elementary education, and so circumstanced as to *require* this assistance.

SPRING, OR PRELIMINARY COURSE.

The Faculty, with the view to increasing the facilities for medical instruction, without additional cost to the student, will deliver

annually a gratuitous preliminary course of lectures upon subjects of importance, commencing on the first of February, and continuing till the commencement of the regular course. Attendance upon this course is particularly desirable, inasmuch as the topics treated of will be such as it will be impossible to reach in the regular course, and hence will enable the professors to treat exhaustively their respective subjects.

BOOKS OF REFERENCE.

Anatomy—Gray's Anatomy and Wilson's Anatomy.

Physiology—Dalton's Physiology, Draper's Human Physiology, Flint's Physiology.

Chemistry—Towne's Chemistry, by Bridges.

Materia Medica—Biddle's Materia Medica, Wood's Materia Medica, Still's Materia Medica and U. S. Dispensatory.

Surgery—Erichsen's Science and Art of Surgery, Gross' System of Surgery, H. H. Smith's Operative Surgery.

Principles and Practice of Medicine—Flint's Practice of Medicine, Aitken's Practice of Medicine, and Bennett's Practice of Medicine.

Clinical Medicine—Tanner's Clinical Medicine, Da Costa's Medical Diagnosis, and Loomis's Physical Diagnosis.

Obstetrics and Diseases of Women and Children—Bedford's Principles and Practice of Obstetrics, Scanzoni's Diseases of Women, Thomas's Diseases of Women, Sim's Uterine Surgery, Simpson's Diseases of Women, and West on Diseases of Children.

Ophthalmology and Otology—Troelsch on the Ear, Well's Treatise on Diseases of the Eye, and Donders on Refraction and Accommodation.

Medical Jurisprudence and Mental Diseases—Maudley's Physiology and Pathology of the Brain, Bucknell and Tuke on Insanity, and Taylor's Medical Jurisprudence.

Hygiene—Park's Manual of Practical Hygiene, Hammond's Treatise on Hygiene, Mapother's Lectures on Public Health, and Huxley and Youman's Physiology and Hygiene.

BOARDING.

Students may obtain good board in San Francisco at from *five* to *ten* dollars per week, and, if they desire, may live at a less expense.

N. B.—Students, on arriving in the city, should call at once upon the Dean, who will communicate all necessary information. Letters must be addressed to A. A. O'Neil, M.D., Dean of the Faculty: Office, 650 and 652 Washington street, below Kearny, or at the College, Stockton street, between Chestnut and Francisco.

Notice.—Pathological and other specimens are respectfully solicited for the College Museum; due credit will be rendered to the donors. Specimens may be left on deposit at the Museum, where proper care will be taken for their preservation.

P. S.—Will the gentleman who forwarded to the College the Conjoined Twins' specimen, please communicate his name and address to the Dean?

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A. J. BOWIE, M. D., San Francisco.
D. O. MILLS, Esq., San Francisco, Treasurer.
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F. M. PIXLEY, Esq., San Francisco.
Hon. HENRY H. HAIGHT, Alameda.
W. T. WALLACE.

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SECRETARY:

ROBERT E. C. STEARNS, Berkeley.

ADVISORY COMMITTEE:

Messrs. Haight Martin, and Stebbins.

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Office, 650 Washington Street.

ANNOUNCEMENT.

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The increasing ratio of insanity to population is attracting the attention of the entire medical profession. The leading schools of the world are establishing special courses of instruction in this department; hence, the Faculty, in view of the frequency with which these diseases are met, and the many casualties, injuries, and deaths from violence and cases of poisoning occurring in this State, involving medico-legal investigation, feel especial pride in being able to announce the addition of this Chair to their curriculum.

The same authorities have established a Chair of Hygiene, which will be illustrated by the professor with new apparatus recently obtained by him for this chair.

THE MUSEUM

Of the College has recently received large accessions to its collection of wet and dried preparations, in the various departments, together with extensive additions in wax and *papier mache*, fitted for illustrating the Lectures. Professor Cole, lately returned from Europe, has secured for the other chairs, as well as for his own, every improvement necessary or useful for explanation.

SPECIAL BRANCHES OF STUDY.

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Principles and Practices of Medicine.—It will be the aim of the Lecturer in this department to impart to the student the most important practical knowledge, to present in his lectures a summary of those facts and principles which are embraced in the practice of medicine at the present time, and which furnish the only safe guide to the medical man.

He will endeavor to give a faithful description of diseases, their etiology, symptoms, diagnosis, prognosis, lesions and treatment

He will convey to the student a knowledge of the pathological changes which occur in different diseases, by means of plates, various preparations, and by recent specimens of diseased parts. A medical clinic will also be given at the City and County Hospital, where the student will have an opportunity of testing, by the evidence of his senses, those facts and principles which have been taught in the lecture-room. Every effort will be made to impart practical instruction in the diagnosis and treatment of diseases.

Especial attention will be given to the diagnosis of diseases of the chest, by auscultation and percussion.

Chemistry.—No effort will be wanting to make the course upon this important branch of science as thoroughly practical and instructive to the class as in similar institutions in the Atlantic States.

All important principles in Chemistry will be illustrated by means of suitable philosophical, chemical, and other apparatus for that purpose, and facts and theories will be presented in a clear and comprehensive manner.

Toxicology will receive that careful attention which its medico-legal importance demands.

Physiology.—The lectures in this department will embrace a consideration of both general and special Physiology, including all that has been developed through the microscope up to the present time, and will be illustrated by the largest and most complete series of colored drawings in the United States, prepared expressly for these lectures.

These drawings have been furnished, and are designed to convey to the mind of the student ideas which it is impossible to communicate by language alone.

When expedient, the microscope, an instrument to which the science of Physiology is much indebted, will be used for illustrating important facts and principles, and the student will not only receive instruction in theory but in the means of arriving at facts in this important science.

Anatomy.—The lectures on Anatomy will be fully illustrated by preparations (wet and dry) and by the *cadaver*.

The dissecting-room has been entirely refitted and furnished with every possible convenience, so as to facilitate the prosecution of the study of practical Anatomy, and will be constantly supplied with an abundance of material.

Surgery.—Instruction in this department will embrace : 1st. A regular course of lectures on the principles and practice of surgery; 2d. Demonstrative surgery upon the *cadaver;* and 3d. A thorough clinical course, including diseases of the genito-urinary apparatus, at the County Hospital and College Building.

Obstetrics.—In this course there will be no lack of effort to bring everything pertaining to this department as clearly and practically before the mind of the student as the present state of the science will admit.

The lectures will be amply illustrated by colored drawings, many of which have been taken from nature, and also by wet preparations. The different operations in obstetrics will be performed upon a manikin, and the student will be instructed and practiced in the use of obstetrical instruments, besides enjoying the opportunity of visiting the Lying-in Hospital, and applying to practice principles which have been taught in the lecture-room.

Materia Medica and Pharmacy.—It will be the aim of the Professor of Materia Medica to bring before the class all that is of importance and bears the impress of truth, connected with this department, in such a manner as to be readily comprehended by the student.

The lectures will be illustrated by colored drawings, by the exhibition of the various medicinal substances in use at the time of describing them, and by demonstrating their reactions and combinations.

Recent plants will be presented and described, when expedient, particularly those which are indigenous to our soil, of which there are many varieties scattered over this vast region, possessing great therapeutic value, a knowledge of which is indispensable to the practitioner of medicine in this country.

Diseases of Women.—This department, which has made within the past few years such rapid strides toward thorough development, and which has recently received so much attention at the hands of the profession, will be fully taught, both didactically and clinically. The facilities furnished in this institution for carrying out practically the study of diseases peculiar to women are rarely enjoyed, and are not excelled by any other school in the country.

Medical Jurisprudence and Mental Diseases.—The lectures in this department will exhibit the principles of legal medicine and the duties of medical men as experts in giving testimony in courts of justice, and in the examination of medico-legal questions; will embrace a view of insanity, suicide, infanticide, legitimacy, poisoning, death and injury from violence, feigned sickness, duties of coroners, and other topics of practical importance, whether to the student of medicine or of law; together with a thorough course on the various diseases of the mind, so common in this State.

Ophthalmology and Otology.—The great and growing importance of Diseases of the Eye and Ear, and the extensive discoveries and improvements recently made in those departments, have led to the establishment of a Professorship of Ophthalmology and Otology. The students will have frequent opportunities of witnessing operations of different kinds, particularly on the Eye, and will be instructed in the use of the ophthalmoscope and other instruments, in the diagnosis and treatment of the diseases of these organs. For this purpose a proper room has been specially furnished and fitted, and the student will be taught their use practically.

Students in good standing will be permitted to attend the lectures of the Pharmaceutical Department on payment of the matriculation fee of two dollars and a half ($2.50).

REQUIREMENTS AND REGULATIONS.

The examinations will be so arranged as to permit the commencement for conferring degrees to be held early in November.

The candidate must be of good moral character, and at least twenty-one years of age.

He must have attended two full courses of lectures in some regular and recognized medical school, one of which shall have been in this College, and he must exhibit his tickets, or other sufficient evidences thereof, to the Dean of the Faculty.

He must have studied medicine for not less than three years, and have attended at least one course of practical anatomy in the dissecting-room, and one course of clinical instruction in an institution approved by the Faculty.

He must present to the Dean of the Faculty a thesis or dissertation upon some medical subject, in his own hand-writing and of his own composition; and exhibit to the Faculty, at his examination, satisfactory evidence of his professional attainments.

FEES.

The aggregate fees for tickets to all the lectures during the regular term, including instruction at the various hospitals, will be $130. Tickets for one or any number of the departments of instruction may be had separately.

BENEFICIARIES.

For the purpose of assisting meritorious young men, the Faculty will receive annually a limited number of beneficiaries, who will be required to pay *fifty dollars* each toward the support of the institution, together with the matriculation fee.

Those who are desirous of availing themselves of this foundation must present to the Dean of the Faculty, as early as possible, satisfactory evidence, showing them to be of good moral character and of appropriate elementary education, and so circumstanced as to *require* this assistance.

SPRING, OR PRELIMINARY COURSE.

The Faculty, with the view to increasing the facilities for medical instruction, without additional cost to the student, will deliver annually a gratuitous preliminary course of lectures upon subjects of importance, commencing on the first of February, and continuing till the commencement of the regular course. Attendance upon this course is particularly desirable, inasmuch as the topics treated of will be such as it will be impossible to reach in the regular course, and hence will enable the professors to treat exhaustively their respective subjects.

BOOKS OF REFERENCE.

Anatomy—Gray's Anatomy and Wilson's Anatomy.

Physiology—Dalton's Physiology, Draper's Human Physiology, Flint's Physiology.

Chemistry—Fowne's Chemistry, by Bridges.

Materia Medica—H. C. Wood's Therapeutics, Materia Medica, and Toxicology, Biddle's Materia Medica, Stille's Materia Medica, Stille's Therapeutics and U. S. Dispensatory.

Surgery—Erichsen's Science and Art of Surgery, Gross' System of Surgery, H. H Smith's Operative Surgery.

Principles and Practice of Medicine—Flint's Practice of Medicine, Aitken's Practice of Medicine, and Bennett's Practice of Medicine.

Clinical Medicine — Tanner's Clinical Medicine, Da Costa's Medical Diagnosis, and Loomis' Physical Diagnosis.

Obstetrics and Diseases of Women and Children—Bedford's Principles and Practice of Obstetrics, Scanzoni's Diseases of Women, Thomas' Diseases of Women, Sim's Uterine Surgery, Simpson's Diseases of Women, and West on Diseases of Children.

Ophthalmology and Otology—Troelsch on the Ear, Wells' Treatise on Diseases of the Eye, and Donder's on Refraction and Accommodation.

Medical Jurisprudence and Mental Diseases—Maudley's Physiology and Pathology of the Brain, Bucknell and Tuke on Insanity, and Taylor's Medical Jurisprudence.

Hygiene—Park's Manual of Practical Hygiene, Hammond's Treatise on Hygiene, Mapother's Lectures on Public Health, and Huxley and Youman's Physiology and Hygiene.

BOARDING.

Students may obtain good board in San Francisco at from *five* to *ten* dollars per week, and, if they desire, may live at a less expense.

N. B.—Students, on arriving in the city, should call at once upon the Dean, who will communicate all necessary information. Letters must be addressed to A. A. O'Neil, M. D., Dean of the Faculty. Office, 650 and 652 Washington street, below Kearny, or at the College, Stockton street, between Chestnut and Francisco.

Notice.—Pathological and other specimens are respectfully solicited for the College Museum ; due credit will be rendered to the donors. Specimens may be left on deposit at the Museum, where proper care will be taken for their preservation.

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ANNUAL ANNOUNCEMENT OF LECTURES

AT

TOLAND HALL,

MEDICAL DEPARTMENT

OF THE

UNIVERSITY OF CALIFORNIA,

SAN FRANCISCO,

CALIFORNIA.

SESSION OF 1878.

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UNIVERSITY OF THE STATE OF CALIFORNIA.

MEDICAL DEPARTMENT,

TOLAND HALL, Stockton, cor. Chestnut, San Francisco.

MEDICAL FACULTY.

JOHN LeCONTE, M. D.,
President of the University.

H. H. TOLAND, M. D.,
Professor of the Principles of Surgery and Clinical Surgery.

R. BEVERLY COLE, A. B., M. D.,
Professor of Obstetrics and Clinical Diseases of Women.

C. M. BATES, M. D.,
Professor of Clinical Medicine and Physical Diagnosis.

M. W. FISH, M. D.,
Professor of Physiology.

JAMES SIMPSON, M. D.,
Professor of Materia Medica, Therapeutics, and Clinical Medicine.

F. W. HATCH, A. M., M. D.,
Professor of Public Hygiene.

N. J. MARTINACHE, M. D.,
Professor of Ophthalmology and Otology.

G. A. SHURTLEFF, M. D.,
Professor of Mental Diseases and Medical Jurisprudence.

GEORGE HEWSTON, A. M., M. D.,
Professor of Theory and Practice of Medicine.

G. B. KEANE, M. D.,
Lecturer on Chemistry.

ROB'T A. McLEAN, M. D.,
Lecturer on Anatomy—General and Special.

Lecturer on Pathology, Histology, and Microscopy.

R. BEVERLY COLE, A. B., M. D.,
Dean of the Faculty,
518 Sutter Street, S. F.

R. A. McLEAN, M. D.,
Secretary,
603 Merchant St., cor. Montgomery.

ANNOUNCEMENT.

The Medical Department of the University of California is an integral part of the State's great central educational institution, and *not* an affiliated College, *or a private enterprise.*

The organic Act under which it was incorporated comprehends a University in its broadest sense, and the institution now includes in its Scientific Departments a College of Agriculture, a College of Mechanics, a College of Mining, a College of Engineering, and a College of Chemistry. The Literary Department includes a College of Letters, classical and literary, whilst the Professional Department embraces a Medical College, a Pharmaceutical College, a Law College, and a Dental College.

Thus it will be seen that the University of California is the only thoroughly organized State Institution west of Pennsylvania, enabling it to furnish students of its Medical School much greater facilities than it is possible for institutions under private management to do. Through its various connections, its resources are unlimited in the way of chemical, philosophical, and other apparatus used for illustration and demonstration; and its Museum, though yet young, includes the largest collection of morbid and normal preparations, as also of *papier maché* and wax specimens in the various departments, to be found on the Pacific Slope.

The Faculty of the Medical Department has been selected from the ripest minds on the coast, with particular reference to their teaching qualifications. A majority of its corps are men who have been educated, in part or wholly, in Europe, and stand at the head of their profession in the various departments which they are engaged in teaching.

The Faculty feel an especial pride and satisfaction in being able to announce to the profession of the coast that, having been for several years desirous of rendering medical education more systematic and thorough, they have induced the Board of Regents of the University to establish an improved and higher system without further delay. A consciousness that this advance should be made on this coast, and that the University of the

State was the proper institution to inaugurate it, has impelled the Regents and Faculty to the step.

The Board recently decided that all future matriculates in the University of California *shall attend three full courses of lectures* previous to their examination for the degree of "Doctor in Medicine."

The courses will, as heretofore, be of five months duration, and the studies will be so graded as to allow the constant introduction of new matter as the student progresses, and at the same time to secure at least as much repetition of the more essential subjects as in the former system of teaching. The details of the new system or plan are given below.

In addition to the important features of a lengthened period of study and a graded curriculum, it will be easily appreciated that, to make the system more perfect and practical, clinical and laboratory instruction, and the personal teaching of each student in all the practical subjects, such as physical diagnosis, medicine, surgery, diseases of women, etc., are indispensable, and accordingly ample provision has been made in this direction; in short, the present reform in the University of California is designed chiefly to introduce into the official curriculum of medical study the methods which have long been used in European schools, and which in all other departments of science have given vitality and practical utility to the older didactic system.

In issuing the present announcement, which contains the first mention of the first step towards elevating medical education, and the standard of requirement of candidates for the degree of "Doctor in Medicine," in California, it is but proper to call attention to the very advanced position in which it will place the Medical Department of the University, and to the peculiar advantages which all of its matriculates will hereafter enjoy.

It is universally acknowledged that the term of attendance on lectures has hitherto been too short, and in response to this general conviction the University of California has decided to require the longer period of three years. In doing so, moreover, such extensive advantages have been added to the course, that it is confidently felt and believed that the future graduates of *this* institution will not only be entitled to, but will receive, a larger share of the confidence of the community than can be claimed by those who have pursued a less thorough course of study.

The Fifteenth Annual Course of Lectures in this institution will commence on the first Monday in June, and terminate on the thirty-first day of October, 1878.

The Faculty, in announcing their course of instruction for the ensuing year, feel warranted in claiming for San Francisco a superiority in climate over any of the Eastern cities, which renders the otherwise arduous labors of the student comparatively easy and agreeable on the one hand, and facilitates the study of practical anatomy, irrespective of season, on the other; indeed, the opportunities for prosecuting the study of practical anatomy in this city are superior to those of any other known region of the globe. Independent of the advantages of climate, material for dissection (the supply of which is regulated by law) is abundant and cheap, and our salubrious breezes not only preserve the *cadaver* for an indefinite length of time, but secure the health of the student from injury in consequence of the effluvium, so constant an attendant upon dissections elsewhere. Students, therefore, of all tropical countries, and of the Southern States of our Union, as well as of the North, who are unable, from these causes, to prosecute their studies at home, will find it greatly to their advantage to repair to San Francisco.

The Faculty take pleasure in announcing the superior classes for the past two sessions (believed to be) numerically the largest ever assembled west of the Rocky Mountains. This extremely gratifying evidence of success has encouraged the Faculty to renewed exertions, and, with the co-operation of the Board of Regents, to improve the facilities for teaching the science in all its branches and advance the standard of requirement for graduation.

The recent steps taken in this direction are mere forerunners of those to be taken in the future, determined as they are that the Medical Department of the State University shall stand foremost on the Pacific Coast in its advocacy of progression and elevation of the science of medicine as reflected through its Alumni, to the highest standard of requirement of any of the European schools, thus giving to its diploma a value attaching to but few if any other in the United States.

PRELIMINARY OR SPRING SESSION.

This session, beginning February the 6th, 1878, and continuing until the commencement of the summer or regular course, (although not obligatory upon the student at present, will at no distant day be made so,) is strongly recommended to those who can attend it.

It includes Lectures, Didactic and Clinical, by members of the Faculty, on subjects of importance, which it is impossible to treat in the regular term, thus enabling the professors to deal exhaustively with their respective subjects, and the student to prosecute a more thorough curriculum than the regular course can possibly furnish.

CLINICAL INSTRUCTION.

The facilities furnished in connection with this institution to the student for Clinical study is not excelled by any college in America.

COUNTY HOSPITAL.

This institution, of nearly five hundred beds, of which Prof. Toland is one of the surgeons, Prof. Bates, one of the physicians, and Prof. Martinache, the Ophthalmologist, supplies all that can be desired in this direction, whilst through the politeness of Dr. Hutchins, of the

SAN FRANCISCO FEMALE HOSPITAL,

The advanced students or under-graduates of the University of California will have assigned to them, from time to time, cases of obstetrics for their care and conduct.

CITY RECEIVING HOSPITAL—COUNTY JAIL—CITY BRANCH JAIL—HOUSE OF CORRECTION.

Through the courtesy of Dr. C. Blach, City Physician, students will be permitted to attend the practice of these several public institutions, and be assigned cases to treat coming under

the observation and care of the San Francisco Benevolent Society.

Independently of the clinics at the several hospitals, a very large and instructive clinic is given at the College building, under the direction of Prof. Cole and Prof. Simpson.

Prof. Cole, who is the widest known gynæcologist on the coast, is enabled to present in this clinic a large variety of cases of diseases affecting the special organs of the female, and also to detail students to treat externe patients under his general guidance.

Prof. Simpson, who enjoys an extended reputation in the treatment of diseases of children, will also be enabled to assign cases to the Senior Class, and thus practice each student in the duties that will devolve upon him when he leaves the College and assumes the obligations and responsibilities of the profession.

The clinics are so arranged as in no wise to interfere with the didactic instruction, and yet to enable the student to daily follow the treatment of disease at the bedside and at the residence of externe patients.

PRACTICAL ANATOMY.

The dissecting-room, unquestionably the finest on the coast, lighted from the roof and provided with every modern convenience, is open all the year, for such as are prosecuting the study of practical anatomy. Material is abundant and cheap, and every facility is furnished the student.

SURGERY.

Instruction in this department will embrace : 1st. A regular course of lectures On the Principles and Practice of Surgery ; 2d. Demonstrative Surgery upon the *Cadaver ;* and 3d A thorough Clinical Course, including diseases of the genito-urinary apparatus, at the City and County Hospital and College building.

OBSTETRICS.

In this course there will be no lack of effort to bring everything pertaining to this department as clearly and practically before the mind of the student as the present state of the sciences will admit.

The lectures will be amply illustrated by colored drawings, many of which have been taken from nature, and also by wet preparations.

The different operations in obstetrics will be performed *not only* on the manakin, but *upon* the *cadaver*, thus both illustrating and *demonstrating* the essential principles which are to govern the practitioner.

It is believed that this is the only medical school in America in which the *cadaver* is used for demonstration in this department.

The student will also be instructed and practiced in the use of obstetrical instrumements, besides enjoying the opportunity of visiting the San Francisco Lying-in Hospital, and applying to practice the principles taught and demonstrated in the lecture-room.

MATERIA MEDICA.

It will be the aim of the Professor of Materia Medica to bring before the class all that is of importance, and bears the impress of truth connected with this department in such a manner as to be readily comprehended by the student. The lectures will be illustrated by colored drawings from nature, by the exhibition of the various medicinal plants and preparations in use, and by demonstrating their reactions and combinations.

Recent plants will be presented and described when expedient, particularly those which are indigenous to our soil, of which there are many varieties scattered over this vast region, possessing great therapeutic value, a knowledge of which is indispensable to the practitioner of medicine in this country.

PHYSIOLOGY.

The lectures in this department will embrace a consideration of both general and special Physiology, including all that has been developed through the microscope up to the present time, and will be illustrated by the largest and most complete series of colored drawings in the United States, prepared exclusively for these lectures, besides which the vast collection of preparations and drawings of the Scientific Department at Berkeley are at the command of the professor, thus making this Chair more

complete and replete in this direction than any similar Chair in this country.

These drawings, furnished at great cost, are designed to convey to the mind of the student ideas which it is impossible to communicate by language alone.

Vivi-sections will be practiced when necessary to demonstrate principles, and the microscope, an instrument to which the science of Physiology is much indebted, will be freely used for illustrating important facts and principles, and the student will not only receive instruction in theory, but in the means of arriving at facts in this important science.

CHEMISTRY.

No effort will be wanting to make the course in Chemistry as thoroughly practical and instructive to the class as in similar institutions in the East and elsewhere.

All important principles will be illustrated by means of suitable philosophical, chemical, and other apparatus, and facts and theories will be presented in a clear and comprehensive manner.

The laboratory is the most complete of any medical college in San Francisco, and the apparatus more perfect and extensive.

Toxicology will receive that careful attention which its medico-legal importance demands.

PRINCIPLES AND PRACTICE OF MEDICINE.

It will be the aim of the Professor in this department to impart to the student the most important practical knowledge, to present in his lectures a summary of those facts and principles which are embraced in the science of the practice of medicine at the present time, and which furnish to the medical man the only safe guide.

He will endeavor to give a faithful description of diseases, their etiology, symptoms, diagnosis, prognosis, lesions, and treatment.

He will convey to the student a knowledge of the pathological changes which occur in different diseases, by means of plates, various preparations, and by recent specimens of diseased parts.

MEDICAL JURISPRUDENCE AND MENTAL DISEASES.

The lectures in this department will exhibit the principles of legal medicine and the duties of medical men as experts in giving testimony in courts of justice, and in the examination of medico-legal questions ; will embrace a view of insanity, suicide, infanticide, legitimacy, poisoning, death, and injury from violence, feigned sickness, duties of coroners, and other topics of practical importance, whether to the student of medicine or of law; together with a thorough course on the various diseases of the mind so common in this State.

The facilities for observation of insanity at the command of the professor of this department are unequalled by any other. For many years the Physician-in-Chief of the State Lunatic Asylum, his vast experience has necessarily made him the authority on these diseases, and must render his course eminently interesting and practical.

CLINICAL MEDICINE AND SURGERY.

The opportunities of the student for practical study at the bedside, as furnished at the City and County Hospital, College building, and at the residences of patients, is surpassed by no similar college on the coast, and equalled by but few in the East. Great pains are taken by the gentlemen presiding over these departments to give the diligent student every facility for observation and practice, thereby enabling him to test by the evidences of his senses, such principles and facts as have been taught in the lecture-room.

Every effort will be made to impart practical instruction in the diagnosis and treatment of disease.

Especial attention will be given to *physical diagnosis*, including auscultation and percussion, and each advanced student will be afforded ample opportunity to diagnose and treat cases under the direction of the clinical professors.

ANATOMY.

The lectures on Anatomy will be illustrated fully by the *cadaver*, and by both wet and dry preparations, and will include a

course on general, special, and reginal anatomy, thus preparing the student for active surgical practice, as well as giving him a thorough knowledge of the relation of organs, and the histology of every tissue.

OPHTHALMOLOGY AND OTOLOGY.

The great growing importance of diseases of the eye and ear, and the extensive discoveries and improvements recently made in these departments have led to the establishment of a Professorship of Ophthalmology and Otology, and the gentleman selected to fill the Chair has had perhaps a larger field for observation than any other on this coast, having been *Chef de Clinique* of the celebrated Weder of Paris, now the recognized head of this department of science.

The student will have frequent opportunities of witnessing operations of different kinds, particularly on the eye, and will be instructed in the use of the ophthalmoscope and other instruments in the diagnosis and treatment of diseases of these organs. For this purpose a proper room has been specially furnished and fitted, and the student will be taught their use practically.

PUBLIC HYGIENE.

The science of Hygiene, which of late years has assumed so important a place in the curriculum of a medical education, has attracted the attention of the Board of Regents, and induced them to establish a chair of Public Hygiene.

The permanent Secretary (who is the executive officer) of the "State Board of Health" has, with reference to his great fitness, been selected to fill it, and the knowledge of the subject which his position necessarily brings him, outside of his established reputation as a lecturer and a teacher, will make this most important chair both interesting and instructive.

DISEASES OF WOMEN OR GYNÆCOLOGY.

This practical branch of the science of medicine and surgery, which has made within the past few years such raipd strides

toward thorough development, and which includes so large a percentage of all diseases coming under the observation and treatment of the medical man, and which has recently received so much attention at the hands of the profession, will be fully taught, both didactically and clinically.

The Medical Department of this University was the first to establish a clinic for the treatment of this class of diseases, and the facilities furnished in this institution for carrying out *practically the study of diseases peculiar to women*, are rarely enjoyed and not excelled by any other school in the country.

RESUME OF SPECIAL STUDIES.

The following branches are annually taught: Principles and Practices of Medicine, Anatomy, Physiology, Surgery, Chemistry, Materia-Medica, Clinical Surgery, Clinical Medicine, Pathology, Midwifery, Diseases of Women, Diseases of Children, Medical Jurisprudence, Clinical Diseases of Women, Clinical Midwifery, Ophthalmology, Otology, Physical Diagnosis, Mental Diseases and Hygiene.

MUSEUM.

The Medical department of the University of California has the *only* Medical Museum on the coast, comprising a large collection of wet pathological specimens, contributed by the several members of the Faculty and of the profession in every part of the State, together with extensive recent additions in wax and papier-mache, fitted for illustrating the lectures.

Prof. Cole, lately returned from Europe, has secured for the other Chairs, as well as for his own, every improvement in the way of illustrations necessary or useful—the whole obtained at great cost, and furnishing a very valuable auxillary to the course of instruction.

EXAMINATIONS.

In accordance with the requirements of the *improved and extended course of instruction* adopted by the Board of Regents and Faculty, it has been determined that an examination shall be held at the close of each year, as follows:

First Year—Anatomy, Physiology, General Chemistry, and Materia Medica.

Second Year—Anatomy, Physiology, Medical Chemistry, Materia Medica, Pathological Anatomy and Histology, Clinical Medicine, Physical Diagnosis, and Clinical Surgery.

Third Year—Anatomy, General and Surgical, Physiology, Chemistry, Materia Medica and Therapeutics, Obstetrics, Theory and Practice of Medicine, Surgery, Clinical Medicine, Physical Diagnosis, Clinical Surgery, Gynæcology, Ophthalmology, Mental Diseases, Medical Jurisprudence, Public Hygiene and Laryngoscopy.

RULES AND REQUIREMENTS FOR GRADUATION.

I. The candidate for the degree of Doctor of Medicine must have attained the age of twenty-one years, and be of good moral character. He must have applied himself to the study of medicine for three years, and have attended at least his last course of instruction in this school; have prepared a satisfactory thesis of his own composition, and in his own hand-writing, which must be submitted prior to his admission to examination.

II. Students who have attended one full course in any regular or recognized Medical College, shall, upon satisfactory examination in the curriculum provided for the first year, be admitted as students of the *second course* in the University of California. Students who have attended two courses in any regular and recognized Medical College, shall be admitted as students of the *third course* in this Institution, after having passed a satisfactory examination in the curriculum provided for the second year. Graduates of other regular Medical Colleges, in good standing, shall be admitted as students of the *third* course in this Institution without any examination.

III. When a candidate applies to the Secretary of the Faculty for examination, he must give satisfactory evidence that the above rules have been complied with, which evidence will be presented by the Secretary to the Dean, by whom an order for examination will be issued.

IV. The candidate shall pay the graduation fee on the presentation of his Thesis to the Secretary, and upon receiving notice of having passed a satisfactory examination he will enter his name on the Register for the purpose of being reported to the Board of Regents.

V. Candidates who have passed their examination, and in other respects complied with the regulations, are reported by the Secretary of the Faculty to the Dean of the University, who communicates such report to the Board of Regents, in order that, if approved of by them their mandamus may be issued for conferring the Degree.

VI. The Commencement for conferring the Degree of Doctor of Medicine is held during the month of November.

VII. For the convenience of such candidates as have at the close of the term not completed their full three years of study, and have complied with every other requirement, an examination will be held in the month of May, and the degree will be conferred upon such as are successful at the next regular Commencement. A certificate will be given, however, setting forth the facts in the case, which will be recognized by the State Board of Examiners, and a license to practice by them granted.

VIII. In accordance with the Organic Act under which the University was incorporated, the Faculty will examine all candidates, whether educated in the University or other schools. Such as come from other colleges must have been examined by the Faculty of said College, and recommended by them as proficient candidates for the Degree, and on passing the examination in the University, they may receive the Degree and Diploma, and rank as graduates of this Institution.

EXPENSES.

Matriculating Fee (paid but once)	$ 5
Fee for the 1st Course of Lectures	130
Fee for the 2d Course of Lectures	130
Third Course of Lectures gratuitous for such as have paid for two full courses.	
Graduating Fee	40

NOTE—All fees are payable in advance to the Secretary of the Faculty, who will issue a general ticket to all the lectures. No promissory notes will be received, but such as desire may obtain tickets for one or any number of the chairs separately.

BOOKS OF REFERENCE.

Anatomy—Gray's Anatomy, Wilson's Anatomy, and Richardson's Anatomy.

Physiology—Dalton's Physiology, Draper's Human Physiology, Flint's Physiology.

Chemistry—Fowne's Chemistry, by Bridges.

Materia Medica—H. C. Wood's Therapeutics, Materia Medica and Toxicology, Farquarson's Materia Medica, and U. S. Dispensatory.

Surgery—Erichsen's Science and Art of Surgery, Gross' System of Surgery, H. H. Smith's Operative Surgery, and Toland's Lectures on Practical Surgery.

Principles and Practice of Medicine—Aitken's Practice of Medicine, Bennett's Practice of Medicine, and Tanner's Practice of Medicine.

Clinical Medicine—Tanner's Clinical Medicine, DaCosta's Medical Diagnosis, and Loomis' Physical Diagnosis.

Obstetrics and Diseases of Women and Children—Bedford's Principle and Practice of Obstetrics, Scanzoni's Diseases of Women, Thomas' Diseases of Women, Sim's Uterine Surgery, Simpson's Diseases of Women, West on Diseases of Children, and Smith's Diseases of Children.

Ophthalmology and Otology—Troelsch on the Ear, Wells' Treatise on Diseases of the Eye, and Donders on Refraction and Accommodation.

Medical Jurisprudence and Mental Diseases—Maudley's Physiology and Pathology of the Brain, Bucknell and Tuke on Insanity, and Taylor's Medical Jurisprudence.

BOARDING.

Students may obtain good board in San Francisco at from *five* to *ten* dollars per week, and, if they desire, may live at a less expense.

N. B.—Students on arriving in the city should call at once upon the Secretary, Dr. R. A. McLean, 603 Merchant, corner Montgomery street, or the Dean, Prof. R. Beverly Cole, 518 Sutter street, who will furnish all necessary information.

Letters must be addressed to the Secretary at his office, or the College, Stockton street between Chestnut and Francisco.

Graduates of Medical Department

OF THE

UNIVERSITY OF CALIFORNIA

1877.

G. P. McCOLL.....Scotland.
W. T. WILLIAMSON.....Ontario.
S. E. JOSEPHI.....Portland, Or.
JOSEPH PESCIA.....San Francisco.
JAMES FROST.....Vallejo, Cal.
J. J. McDONALD.....New York.
E. M. WEISS.....Austria.
GEO. E. REYNOLDS.....San Francisco.
J. M. HEINIMANN.....San Francisco.
J. R. SWISHER.....Illinois.
BENJ. E. STEVENSON.....Ontario.
GEO. A. REICH.....Prussia.
S. E. DUNCAN.....Vallejo.
F. VON BUELOW.....Prussia
S. P. WHARTON.....Ohio.

University of California.

LITERARY AND SCIENTIFIC DEPARTMENTS:

INCLUDING

1—COLLEGE OF LETTERS;
 (1) Classical Course;
 (2) Literary Course;

2—COLLEGE OF AGRICULTURE;

3—COLLEGE OF MECHANICS;

4—COLLEGE OF MINING;

5—COLLEGE OF ENGINEERING;

6—COLLEGE OF CHEMISTRY.

7—COLLEGE OF MEDICINE.

8—COLLEGE OF LAW.

9—COLLEGE OF PHARMACY.

Academic Senate.

JOHN LeCONTE, M. D.,
President, and Professor of Physics.

WILLIAM ASHBURNER,
Honorary Professor of Mining.

GEO. WOODBURY BUNNELL, A. M.,
Professor of the Greek Language and Literature.

GEO. DAVIDSON, A. M.,
Honorary Professor of Geodesy and Astronomy.

STEPHEN J. FIELD, LL.D.,
Honorary Professor of Law.

G. G. GREENOUGH,
(First Lieutenant, Fourth U. S. Artillery),
Professor of Military Science and Tactics.

FREDERICK G. HESSE,
Professor of Industrial Mechanics.

EUGENE W. HILGARD, Ph. D.,
Professor of Agriculture, Agricultural Chemistry, General and Economic Botany.

MARTIN KELLOG, A. M.,
Dean, and Professor of the Latin Language and Literature.

JOSEPH LeCONTE, M. D.,
Professor of Geology and Natural History.

BERNARD MOSES, Ph. D.,
Professor of History and Political Economy.

PAUL PIODA,
Professor of Modern Languages.

WILLARD B. RISING, PH. D.,
Professor of Chemistry.

EDWARD R. SILL, A. M.,
Professor of the English Language and Literature.

FRANK SOULE, JR.,
(U. S. Military Academy),
Professor of Civil Engineering and Astronomy.

WILLIAM T. WELCKER,
(U. S. Military Academy),
Professor of Mathematics.

GEORGE F. BECKER, A. B., PH. D.,
Instructor in Mining and Metallurgy.

JOHN W. BICE, PH. B.,
Instructor in Engineering.

SAMUEL B. CHRISTY, PH. B.,
Instructor in Chemistry.

JOHN B. CLARKE, PH. B.,
Instructor in Mathematics.

DAVID CUMMING, PH. B.,
Instructor in Mathematics.

GEORGE C. EDWARDS, PH. B.,
Instructor in Mathematics.

CARLOS F. GOMPERTZ,
Instructor in Spanish.

LEANDER L. HAWKINS, PH. B.,
Instructor in Mathematics and Surveying (Field Practice).

JOHN D. HOFFMANN,
Instructor in Mechanical and other branches of Instrumental Drawing.

A. WENDELL JACKSON, JR., PH. B.,
Instructor in Mineralogy.

HENRY B. JONES,
Assistant Instructor in French and German.

WM. CAREY JONES, A. B.,
Recorder of the Faculty, and Instructor in Latin.

EDWARD A. PARKER, PH. B.,
Instructor in Physics and Mechanics.

JAMES M. PHILLIPS, A. B.,
Instructor in Hebrew, Chaldaic, and Syriac.

ALBIN PUTZKER,
Instructor in German.

JOSEPH C. ROWELL, A. B.,
Librarian.

E. H. SEARS, A. B.,
Instructor in Latin and Greek.

JOHN M. STILLMAN, PH. B.,
Instructor in Chemistry.

FRANK S. SUTTON, PH. B.,
Assistant in Agricultural Chemistry.

BENJ. P. WALL, PH. B.,
Instructor in English Language.

GRADUATE ASSISTANTS:

EDWARD BOOTH, PH. B.,
Chemistry.

FRANK J. SOLINSKY, PH. B.,
Mathematics.

STUDENT ASSISTANT:

AUGUST HARDING,
Chemistry.

ORGANIZATION.

The University maintains, at Berkeley, seven courses of study, commonly called "Colleges," namely:

In Science—AGRICULTURE, MECHANICS, ENGINEERING, CHEMISTRY, MINING.

In Letters—CLASSICAL, LITERARY.

For the five Colleges in Science, as well as for the Literary course in the College of Letters, the degree given at the close of the course is that of Bachelor of Philosophy. For the Classical course, the degree is that of Bachelor of Arts.

The various Scientific Colleges of the University are designed to give the student a good introduction to the principles of modern science, together with special instruction in that particular department which he may choose. The law of the State requires the maintenance of five distinct Colleges, or Courses. These are: Agriculture, Mechanics, Mining, Engineering, and Chemistry.

The first two years of instruction in all these Colleges include nearly the same studies. A solid foundation is laid for all higher pursuits by the careful study of mathematics, and the elements of chemistry, natural philosophy, etc., as well as of English, French, and German. At the beginning of the third year, the special subjects are made to predominate. In the third and fourth years of the full course special attention is given to studies more immediately relating to any one of the five Colleges which the student may have elected. General studies receive a subordinate degree of attention.

The Classical course corresponds closely with that of Classical Colleges at the East.

The Literary course differs from the Classical chiefly in omitting Greek and advanced Latin, and in giving more attention to history, political economy, the English language and literature, and modern languages.

CLASSES OF STUDENTS.

The students at Berkeley are not only enrolled in separate Colleges, but in each College they may enter in regular or spe-

cial courses. The regular courses are strongly recommended, instead of special courses, to those who want a thorough and systematic education. The special courses are adapted to those who desire to acquire proficiency in a single branch, or who are unable to remain long enough to pursue a full course.

Special Course Students.—Those are thus designated who take up but one or two lines of study, and they are not required to pass the general examinations for admission. They need only to satisfy the instructors in their specialties that they are qualified to profit by the exercises of the class. The permission is accorded only to those who have already made a considerable proficiency in knowledge. Access may thus be obtained to some scientific course, to the chemical laboratory, to instruction in some modern language, etc.

Note.—Regular students who may fail to maintain their standing in one of the four classes will not be permitted, except in extraordinary cases, to take the position of Special Students.

Students at Large.—Students who give all their time to special studies are designated as Students at Large. They are subject to all the regulations of the University, and are expected to make up for themselves a full schedule of study, approved by the Faculty. They will be required to pass the same entrance examination as candidates for the Colleges of Science, and may, by vote of the Faculty, be admitted as candidates for degrees.

Optional Studies.—Students already proficient in the studies laid down in the general scheme which they are following, or who have extra time at their disposal, may pursue optional studies, with the permission of the Faculty; or they may attend lectures and exercises appointed for other sections of the University, if it does not conflict with their regular appointments.

TERMS OF ADMISSION.

For the Colleges of Science:

Candidates must pass a satisfactory examination in *Higher Arithmetic*, in all its branches, including the extraction of square and cubic roots, and the metric system of weights and measures; *Algebra*, to Quadratic Equations; *Geometry*, first four books (Davies' Legendre or Loomis); *English Grammar*, *Rhetoric*, *Geography*, and *History of the United States*.

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It is believed that these requirements can be met by a bright and determined scholar residing in any part of the State. The proper text-books are easily procured. The examination is meant to be thorough and strict, but it is not meant to be so technical or exacting as to deter scholars who have not had the best advantages of tuition. Students who show a capacity to pursue with profit the course marked out, are sometimes admitted on condition that they will make up their deficiencies. At the same time, thorough preparation, where it can be had, is of the greatest importance. Parents and teachers are earnestly requested to give good counsel in this respect to those who are coming to the University.

The following suggestions are made for the guidance of those who are able to do no more than master the requisites above stated:

Although no requirements in Natural Science are specified, the study of Local Botany, Mineralogy, and Natural History is earnestly recommended, both because of the knowledge which may be acquired, and because of the habits of accurate observation of nature which may thus be formed in early youth.

Students are advised to devote at least one year to the study of Latin before entering this department. It will greatly help their acquisition of modern languages, and will be useful in their study of science. Allen & Greenough's Grammar and Reader are especially commended as good manuals for this purpose.

Proficiency in some one or more of the modern languages is also very desirable.

For the College of Letters:

(1) *Classical Course.*—Candidates must pass a satisfactory examination in the same studies as candidates for the Colleges of Science, and in the following *additional* studies: *Latin Grammar*, including prosody; *Cæsar*, four books; *Virgil*, Eclogues, Georgics, and six books of the Æneid; *Cicero*, six orations; *Greek Grammar*, including prosody; *Xenophon's Anabasis*, four books; *Homer's Iliad*, two books (omitting the catalogue). For the *Anabasis* equivalents will be accepted from Goodwin's Greek Reader.

Candidates will also be examined in the first forty-five pages of Allen & Greenough's Latin Composition, and in Jones' Greek Composition, or in their equivalents.

(2) *Literary Course.*—Candidates must pass a satisfactory examination in the same studies as candidates for the Colleges of Science; and, in addition, in the Latin Grammar and Reader, and four books of *Cæsar*. It is desirable, also, to possess an elementary acquaintance with some modern language. As a test of proficiency in practical grammar and composition, each applicant will be required to write a short English exercise, which he must be able to analyze and parse.

After 1878, candidates for the Classical and Literary Courses will be required to have a general knowledge of Grecian and Roman History, such as may be obtained from Smith's "Smaller History of Greece" and "Smaller History of Rome."

By the term "Rhetoric" is meant the study of Rhetoric and Practical Composition as commonly treated in such elementary text-books as Hart's "Manual of Composition and Rhetoric," covering such subjects as punctuation, diction, the properties of style, figures of speech, versification, and especially the practice of prose composition.

A much more detailed statement than is here given, of the right method of preparation, has been prepared by the Faculty, and published as No. 6 of the "Bulletin of the University of California." Copies of this will be sent by mail to any one who applies for it.

For Advanced Standing:

Candidates for advanced standing, whether from other Colleges or not, in addition to the preparatory studies, are examined in those already pursued by the classes which they propose to enter.

Applicants should be at least sixteen years of age, and bring satisfactory testimonials. Young ladies, as well as young men, are received as students.

Tuition is Free to residents of California. Students from other States will be charged a matriculation fee of twenty-five dollars, and a tuition fee of fifty dollars per year, payable in advance, twenty-five dollars at the beginning of each half year.

☞ There are two series of examinations for admission—one held during Commencement Week, the other at the beginning of the Academic Year, at the University buildings at Berkeley.

For 1878, the first will begin on Monday, June 3d, at 10 o'clock A. M., and continue two days; the second will begin on Wednesday, August 7th, at 10 o'clock A. M., and continue three days.

Candidates may apply at either time; but unless they live at a great distance, they will find it advantageous to appear at the first examination. Any minor deficiencies may thus be made up in the long vacation which precedes the opening of the year.

Candidates, on their arrival, may report themselves at once to the President or the Dean, in the North Hall.

The next Academic Year will begin at Berkeley, Thursday morning, August 8th. Instruction will begin on Monday, August 12th, at 9 o'clock A. M., when every student will be expected to be present.

All candidates for admission must conclude their examinations by August 9th.

The Post Office address of the University, of the officers and students engaged in the Colleges of Science and Letters, is Berkeley, California.

CALENDAR FOR 1877-8.

1877—August 9—Beginning of the First Term.
December 19—End of the First Term.

[Winter Vacation of three weeks.]

1878—January 10—Beginning of the Second Term.
June 3, 4—Examinations for Admission.
June 5—COMMENCEMENT—End of the year.

[Summer vacation of nine weeks.]

August 7, 8, 9—Examinations for Admission.
August 8—Beginning of the First Term.
December 18—End of the First Term.



Toland Hall—Medical Department University of California.